

APPENDIX B

BORING LOGS

PROJECT NO. S8130-06-85 South Anchor

| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-1 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|-----------|---|------------------------|----------------|--------------------|
| | | | | DATE DRILLED 6/24/98 | WATER LEVEL (ATD) 5.0' | | |
| | | | | EQUIPMENT STRATAPROBE | DRILLER V&W DRILLING | | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | | B1-0.5 | | FILL Moderately dense to dense, moist, brown to grayish brown, Clayey GRAVEL -grades to wet | | GC | 0.0 |
| 2 | | B1-1 | | | | | |
| 3 | | B1-2 | | | | | |
| 4 | | B1-2.5 | | | | | |
| 5 | | B1-5 | | | | | |
| 6 | | B1-5.5 | | BAY MUD Stiff, wet, olive gray to gray, slightly Sandy CLAY -sand content decreases | | CL | --- |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | B1-10 | | | | | |
| 11 | | B1-10.5 | | -grades to Clayey, fine to medium SAND -clean sand lense -sand gradation and clay content vary | | SC | 12 to 15 |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | B1-14 | | | | | |
| 15 | | B1-14.5 | | | | | |
| 16 | | | | | | | 9 |
| 17 | | | | | | | |
| 18 | | B1-18 | | | | | |
| 19 | | B1-18.5 | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | B1-22 | | | | | |
| 23 | | B1-22.5 | | | | | |
| 24 | | | | | | | |

Figure C1, Log of Boring B-1, page 1 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor

| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-1 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|------------------|--|---|------------------------|----------------|--------------------|
| | | | | DATE DRILLED 6/24/98 | WATER LEVEL (ATD) 5.0' | | |
| | | | | EQUIPMENT STRATAPROBE | DRILLER V&W DRILLING | | |
| | | | | SOIL DESCRIPTION | | | |
| 26 | | B1-26 | XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX | PANOCHÉ FORMATION Dense, moist, olive brown with orange brown veins, severely weathered SILTSTONE and CLAYSTONE | | | 7.5 to 9 |
| 27 | | B1-26.5 | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX | -very slow push | | | 0.0 |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | B1-36 | | | | | |
| 37 | | B1-36.5 | | | | | |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | | | XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX | BORING TERMINATED AT 46.5 FEET | | | |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | B1-45.5 B1-46 | | | | | |

Figure C2, Log of Boring B-1, page 2 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

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PROJECT NO. S8130-06-85 South Anchor













| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-2 | | SOIL (USCS) | HEADSPACE (PPM) | |
|---------------------|-----------------------------------|---------------|---|--|------------------------|----------------|--------------------|-----|
| | | | | DATE DRILLED 6/24/98 | WATER LEVEL (ATD) 3.5' | | | |
| | | | | EQUIPMENT | STRATAPROBE | DRILLER | V&W DRILLING | |
| | | | | SOIL DESCRIPTION | | | | |
| 1 | | B2-0.5 |  | FILL Moderately dense to dense, dry to moist, brown, Clayey GRAVEL | | | GC | 0.0 |
| 2 | | B2-2 | | | | | | |
| 3 | | |  | ▼ Moderately dense, wet, dark olive brown, Silty SAND with gravel | | | SM | |
| 4 | | | | | | | | |
| 5 | | |  | BAY MUD Firm, wet, dark olive gray to dark gray, CLAY with some sand | | | CL | 0.0 |
| 6 | | B2-6 | | | | | | |
| 7 | | |  | | | | | |
| 8 | | | | | | | | |
| 9 | | |  | | | | | |
| 10 | | B2-10 | | | | | | |
| 11 | | |  | | | | | 1.5 |
| 12 | | | | | | | | |
| 13 | | |  | | | | | |
| 14 | | B2-14 | | | | | | |
| 15 | | |  | | | | | |
| 16 | | | | | | | | |
| 17 | | |  | | | | | |
| 18 | | B2-18 | | | | | | |
| 19 | | |  | -sample tube shattered; no sample | | | | |
| 20 | | | | | | | | |
| 21 | | |  | | | | | |
| 22 | | B2-22 | | | | | | |
| 23 | | |  | -grades to Clayey SAND | | | SC | 1.5 |
| 24 | | | | | | | | |

Figure C2, Log of Boring B-2, page 1 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor



| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-2 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|---|---|------------------------|----------------|--------------------|
| | | | | DATE DRILLED 6/24/98 | WATER LEVEL (ATD) 3.5' | | |
| | | | | EQUIPMENT | STRATAPROBE | DRILLER | V&W DRILLING |
| | | | | SOIL DESCRIPTION | | | |
| 26 | | B2-26 |  | -grades to Sandy CLAY | | SC | 9.0 |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | PANOCHE FORMATION | | CL | |
| 30 | | | | Stiff, wet, light olive brown, Sandy CLAY (weathered claystone) | | | |
| 31 | | | | | | | |
| 32 | | B2-36 |  | -driller noted hard push | | | |
| 33 | | | | | | | |
| 34 | | | | Dense, moist, brown to orange, slightly cemented, Sandy SILT | | | |
| 35 | | | | and Sandy CLAY | | | |
| 36 | | | | | | | |
| | | | | BORING TERMINATED AT 36.5 FEET | | | |

Figure C3, Log of Boring B-2, page 2 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor

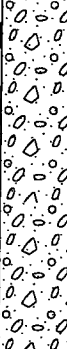

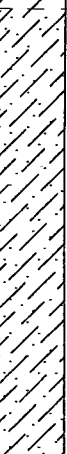
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-3 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|---|---|------------------------|----------------|--------------------|
| | | | | DATE DRILLED 6/24/98 | WATER LEVEL (ATD) 4.0' | | |
| | | | | EQUIPMENT STRATAPROBE | DRILLER V&W DRILLING | | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | | B3-0.5 |  | Dense, dry to moist, Sandy GRAVEL to Gravelly SAND -grades to wet | | GW/SW | 4.5 |
| 2 | | B3-2 | | | | | 7.5 |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | B3-6 | | | | | 0.0 |
| 7 | | |  | BAY MUD Stiff, wet, dark gray to black, CLAY | | CL | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | B3-10 | | | | | 0.0 |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | B3-14 | | | | | 1.5 |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | |  | Grades to Clayey, fine to medium SAND, thin sand lenses with relatively "clean" sand -clay and sand content vary | | SC | |
| 18 | | B3-18 | | | | | 0.0 |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | B3-22 | | | | | 7.5 to 9.0 |
| 23 | | | | | | | |
| 24 | | | | | | | |

Figure C3, Log of Boring B-3, page 1 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor

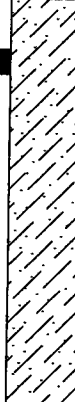


| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-3 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|---|--|------------------------|----------------|--------------------|
| | | | | DATE DRILLED 6/24/98 | WATER LEVEL (ATD) 4.0' | | |
| | | | | EQUIPMENT STRATAPROBE | DRILLER V&W DRILLING | | |
| | | | | SOIL DESCRIPTION | | | |
| 26 | | B3-26 |  | | | | 9.0 |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | Grades to stiff to very stiff, moist, dark olive brown, Sandy CLAY | | CL | |
| 35 | | | | | | | |
| 36 | | B3-36 |  | | | | 9.0 |
| 37 | | | | | | | |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | | | | | | | |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | Grades to Sandy CLAY with gravel | | | |
| 46 | | B3-46 |  | | | | 1.5 to 3.0 |
| | | | | BORING TERMINATED AT 46.5 FEET | | | |

Figure C4, Log of Boring B-3, page 2 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor

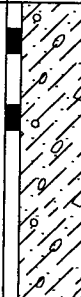

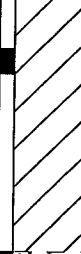

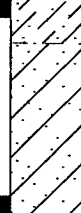
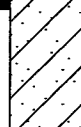
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-4 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|---|--|------------------------|----------------|--------------------|
| | | | | DATE DRILLED 7/6/98 | WATER LEVEL (ATD) 4.0' | | |
| | | | | EQUIPMENT STRATAPROBE DRILLER V&W DRILLING | | | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | | B4-0.5 |  | FILL Dense, dry, brown to grayish brown, Clayey GRAVEL and SAND -water at 4.2 feet 2 hours after push | | GC | 0.0 |
| 2 | | B4-2 | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | |  | Soft to firm, wet, bluish gray, CLAY and CLAYSTONE fragments | | CL | 0.0 |
| 6 | | B4-6 | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | |  | BAY MUD Soft to firm, wet, dark gray, CLAY | | CL | 0.0 |
| 10 | | B4-10 | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | |  | Grades to gray, Clayey, fine to medium SAND | | SC | 0.0 |
| 14 | | B4-14 | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | |  | Fine sand with clay predominantly Sandy CLAY -clay content decreases; sand lenses | | CL | 0.0 |
| 18 | | B4-18 | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | |  | | | | |
| 22 | | B4-22 | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |

Figure C4, Log of Boring B-4, page 1 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor


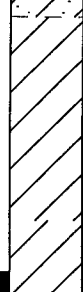

| | | | | BORING NO. B-4 | | | |
|---------------------|-----------------------------------|--|---|---|--|----------------|--------------------|
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | DATE DRILLED 7/6/98 WATER LEVEL (ATD) 4.0' | | SOIL (USCS) | HEADSPACE (PPM) |
| | | | | EQUIPMENT STRATAPROBE DRILLER V&W DRILLING | | | |
| | | | | SOIL DESCRIPTION | | | |
| 26 | | B4-26 |  | | | | 7.5 |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | B4-36 |  | | | | 9.0 |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | | | | | | |
| 37 | | | | | | | |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | | B4-46 |  | Grades to CLAY with claystone fragments (coarse sand to fine gravel size) | | CL | 9.0 |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | Driller comment "very hard at 46 feet" | | | | | |
| | | | | BORING TERMINATED AT 46.5 FEET | | | |

Figure C5, Log of Boring B-4, page 2 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

| | |
|-------------------|--|
| BORING ELEVATION: | ENGINEER/GEOLOGIST: BILL KENNEY |
|-------------------|--|

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor


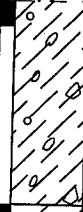
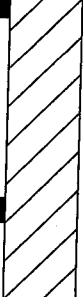

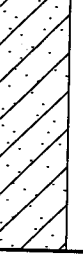

| | | | | BORING NO. B-5 | | | |
|---------------------|-----------------------------------|---------------|---|---|--|----------------|--------------------|
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | DATE DRILLED 7/6/98 WATER LEVEL (ATD) 4.5' | | SOIL (USCS) | HEADSPACE (PPM) |
| | | | | EQUIPMENT STRATAPROBE DRILLER V&W DRILLING | | | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | | B5-0.5 |  | FILL Dense, dry to moist, brown to gray brown, Sandy GRAVEL | | GW | 7.5 |
| 2 | | B5-2 | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | |  | ▼ Water at 4.2 feet ~1.5 after push | | GC | 9.0 |
| 6 | | B5-6 | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | |  | BAY MUD Soft to firm, wet, dark gray, CLAY | | CL | 9.0 |
| 10 | | B5-10 | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | |  | Grades to Sandy CLAY | | CL | 9.0 |
| 14 | | B5-14 | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | |  | Sand lenses fine to medium with clay | | CL | 9.0 |
| 18 | | B5-18 | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | |  | | | | 16.5 |
| 22 | | B5-22 | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |

Figure C5, Log of Boring B-5, page 1 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor

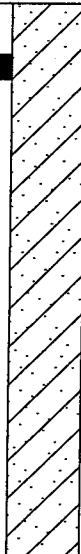
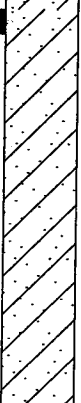
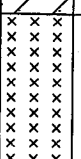
| BORING NO. B-5 | | | | SOIL (USCS) | HEADSPACE (PPM) | |
|---------------------|-----------------------------------|---------------|---|--|--------------------|-----|
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | DATE DRILLED 7/6/98 WATER LEVEL (ATD) 4.5' | | |
| | | | | EQUIPMENT STRATAPROBE DRILLER V&W DRILLING | | |
| SOIL DESCRIPTION | | | | | | |
| 26 | | B5-26 |  | | | 9.0 |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| 31 | | | | | | |
| 32 | | | | | | |
| 33 | | | | | | |
| 34 | | | | | | |
| 35 | | | | | | |
| 36 | | B5-36 |  | PID out | | |
| 37 | | | | | | |
| 38 | | | | | | |
| 39 | | | | | | |
| 40 | | | | | | |
| 41 | | | | | | |
| 42 | | | | | | |
| 43 | | | | | | |
| 44 | | | | | | |
| 45 | | | | | | |
| 46 | | B5-46 |  | PANOCHÉ FORMATION Dense, moist, dark brown and grayish brown, CLAYSTONE, moderately weathered | | |
| 47 | | | | | | |
| | | | | BORING TERMINATED AT 47 FEET | | |

Figure C6, Log of Boring B-5, page 2 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor



| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-6 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|---|--|----------------------|----------------|--------------------|
| | | | | DATE DRILLED 7/6/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT STRATAPROBE | DRILLER V&W DRILLING | | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | | B6-0.5 |  | Dense, dry, brown, Sandy GRAVEL with some clay | | | 0.0 |
| 2 | | B6-2 | | | | GW | 0.0 |
| 3 | | | | | | | |
| 4 | | | | Clay content increases | | | |
| 5 | | | | Grades to Clayey GRAVEL | | GC | |
| 6 | | B6-6 | | | | | 4.5 to 6.0 |
| 7 | | |  | BAY MUD | | | |
| 8 | | | | Stiff, moist to wet, dark gray, CLAY | | | |
| 9 | | | | | | | |
| 10 | | B6-10 | | | | CL | 0.0 |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | B6-14 | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | B6-18 | | No sample recovery | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | B6-22 | | Grades to sandy CLAY | | CL | 0.0 |
| 23 | | | | Sand lenses | | | |
| 24 | | | | Moderately dense, wet, dark gray, Clayey SAND | | SC | |

Figure C6, Log of Boring B-6, page 1 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor

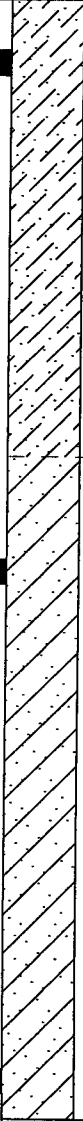
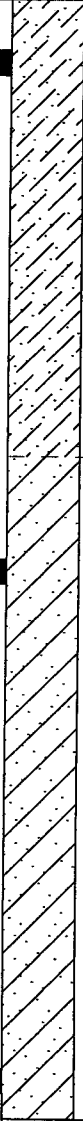
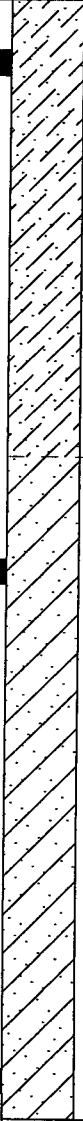
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-6 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|--|---|----------------------|----------------|--------------------|
| | | | | DATE DRILLED 7/6/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT STRATAPROBE | DRILLER V&W DRILLING | | |
| | | | | SOIL DESCRIPTION | | | |
| 26 | | B6-26 |  | Clay content increases | | CL | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | B6-36 |  | Stiff, wet, dark olive gray, CLAY with sand -sand content decreases -light bluish gray inclusions | | CL | |
| 37 | | | | | | | |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | | | | | | | |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | B6-46 |  | BORING TERMINATED AT 47 FEET | | | |
| 47 | | | | | | | |

Figure C7, Log of Boring B-6, page 2 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

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| BORING ELEVATION: | ENGINEER/GEOLOGIST: BILL KENNEY |
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NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor



| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-7 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|--|---|----------------------|----------------|--------------------|
| | | | | DATE DRILLED 7/6/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT STRATAPROBE | DRILLER V&W DRILLING | | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | | B7-0.5 |  | FILL Dense, dry to moist, brown to dark brown, Sandy GRAVEL | | GW | |
| 2 | | B7-2 | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | B7-6 | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | B7-10 |  | BAY MUD Soft to firm, wet, gray, CLAY | | CL | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | B7-14 | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | B7-22 | | | | | |
| | | | | Grades to Sandy CLAY | | SC | |
| | | | | Grades to Clayey SAND | | | |
| | | | | Clay and sand content vary | | | |
| | | | | | | | |

Figure C7, Log of Boring B-7, page 1 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor




| PROJECT NO. 58150-00-85 South Anchor | | | | | | | | |
|--------------------------------------|-----------------------------------|---------------|--|--------------------------------------|----------------------|----------------|--------------------|------------------------------|
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-7 | | SOIL (USCS) | HEADSPACE (PPM) | |
| | | | | DATE DRILLED 7/6/98 | WATER LEVEL (ATD) | | | |
| | | | | EQUIPMENT STRATAPROBE | DRILLER V&W DRILLING | | | |
| | | | | SOIL DESCRIPTION | | | | |
| 26 | | B7-26 |  | No recovery, soft and wet | | | | CL |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | B7-36 |  | Grades to stiff, gray CLAY with sand | | | | |
| 32 | | | | | | | | |
| 33 | | | | | | | | |
| 34 | | | | | | | | |
| 35 | | | | | | | | |
| 36 | | | | | | | | |
| 37 | | | | | | | | |
| 38 | | | | | | | | |
| 39 | | | | | | | | |
| 40 | | | | | | | | |
| 41 | | B7-46 |  | Driller comment "harder ground" | | | | |
| 42 | | | | | | | | |
| 43 | | | | | | | | |
| 44 | | | | | | | | |
| 45 | | | | | | | | |
| 46 | | | | | | | | |
| 47 | | | | | | | | |
| | | | | | | | | BORING TERMINATED AT 47 FEET |

Figure C8, Log of Boring B-7, page 2 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor

| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-8 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|-----------|--|------------------------|----------------|--------------------|
| | | | | DATE DRILLED 7/6/98 | WATER LEVEL (ATD) 4.5' | | |
| | | | | EQUIPMENT STRATAPROBE DRILLER V&W DRILLING | | | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | | B8-0.5 | | FILL Dense, dry to moist, brown to dark brown, Sandy GRAVEL -clay content increases | | GW | |
| 2 | | B8-2 | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | Grades to moderately dense, wet, brown to grayish brown, Clayey GRAVEL | | GC | |
| 6 | | B8-6 | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | CL | |
| 10 | | B8-10 | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | CL | |
| 14 | | B8-14 | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | SC | |
| 18 | | B8-18 | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | SC | |
| 22 | | B8-22 | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |

Figure C8, Log of Boring B-8, page 1 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

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| BORING ELEVATION: | ENGINEER/GEOLOGIST: BILL KENNEY |
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NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 South Anchor

| BORING NO. B-8 | | | | SOIL | HEADSPACE |
|---------------------|-----------------------------------|---------------|-----------|--------|-----------|
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | (USCS) | (PPM) |
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Figure C9, Log of Boring B-8, page 2 of 2

ENV_NO_WELL CARQUIN.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST:

BILL KENNEY

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage





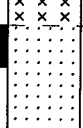
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-1 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|--|---|--|-------------------|----------------------|--------------------|
| | | | | DATE DRILLED 7/20/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT MOBILE B-61 | | DRILLER V&W DRILLING | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | 42 | B1-0.5 1345 |  | ASPHALT CONCRETE/ASPHALT BASE PAVEMENT SECTION | | CL | 0.0 |
| 2 | | Stiff, moist, brown, lean CLAY with sand | | 0.0 | | | |
| 3 | | -dark brown mottle | | 0.0 | | | |
| 4 | | | | | | | |
| 5 | 79 | B1-6 1355 |  | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | 0.0 |
| 8 | | | | | | | |
| 9 | 37 | B1-10 1403 |  | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | 0.0 |
| 12 | | | | | | | |
| 13 | 74 | B1-15 1406 |  | PANOCHE FORMATION | | | 0.0 |
| 16 | | | | Dense, moist, olive gray, CLAYSTONE, severely weathered | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | 36/50-2' | B1-20 1412 |  | | | | |
| 20 | | | | | | | |
| 21 | | | | Dense to very dense, moist, strong brown, Silty SANDSTONE, severely weathered | | | 0.0 |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | Weathering decreases, sand content increases | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |

Figure C1, Log of Boring B-1, page 1 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage



| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-1 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|--|---|-------------------|----------------|--------------------|
| | | | | DATE DRILLED 7/20/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT MOBILE B-61 DRILLER V&W DRILLING | | | |
| | | | | SOIL DESCRIPTION | | | |
| 31 | 60 | B1-30 1423 |  | Layered series of strata, silt and sand content vary | | | 0.0 |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | | | | | | |
| 37 | | | | | | | |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | 65 | B1-40 1429 |  | Dense to very dense, very moist, olive brown, Clayey SANDSTONE, well cemented | | | 23 |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | | | | | | |
| 47 | | | | | | | |
| 48 | | | | | | | |
| 49 | | | | | | | |
| 50 | 60 | B1-50 1453 | | | | | |
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Figure C2, Log of Boring B-1, page 2 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage

| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-2 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|----------------|-----------|---|-------------------------|----------------------|--------------------|
| | | | | DATE DRILLED 7/20/98 | WATER LEVEL (ATD) 36.0' | | |
| | | | | EQUIPMENT | MOBILE B-61 | DRILLER V&W DRILLING | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | 74 | B2-0.5 0816 | XXXXXX | ASPHALT CONCRETE/AGGREGATE BASE PAVEMENT | | | 0.0 |
| 2 | | B2-2 0818 | XXXXXX | PANOCHÉ FORMATION | | | |
| 3 | | | XXXXXX | Dense to very dense, moist, yellowish brown, SILTSTONE, | | | |
| 4 | | | XXXXXX | fractured, moderately cemented | | | |
| 5 | | | XXXXXX | | | | |
| 6 | 47/50-3" | B2-6 0828 | XXXXXX | Grades to very fine SANDSTONE | | | 0.0 |
| 7 | | | XXXXXX | | | | |
| 8 | | | XXXXXX | | | | |
| 9 | | | XXXXXX | | | | |
| 10 | 50/50-5" | B2-10 0840 | XXXXXX | | | | 0.0 |
| 11 | | | XXXXXX | | | | |
| 12 | | | XXXXXX | | | | |
| 13 | | | XXXXXX | | | | |
| 14 | | | XXXXXX | | | | |
| 15 | 75/5" | B2-15 0840 | XXXXXX | | | | 0.0 |
| 16 | | | XXXXXX | | | | |
| 17 | | | XXXXXX | | | | |
| 18 | | | XXXXXX | | | | |
| 19 | | | XXXXXX | Grades to very dense, moist, grayish brown, SANDSTONE | | | |
| 20 | 40/50-4" | B2-20 0846 | XXXXXX | | | | 0.0 |
| 21 | | | XXXXXX | | | | |
| 22 | | | XXXXXX | | | | |
| 23 | | | XXXXXX | | | | |
| 24 | | | XXXXXX | | | | |
| 25 | | | XXXXXX | | | | |
| 26 | | | XXXXXX | | | | |
| 27 | | | XXXXXX | | | | |
| 28 | | | XXXXXX | Driller comment "very hard" | | | |
| 29 | | | XXXXXX | | | | |

Figure C2, Log of Boring B-2, page 1 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

| | |
|-------------------|--|
| BORING ELEVATION: | ENGINEER/GEOLOGIST: BILL KENNEY |
|-------------------|--|

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage

| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-2 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|-----------|--|-------------------|----------------|--------------------|
| | | | | DATE DRILLED | WATER LEVEL (ATD) | | |
| | | | | 7/20/98 | 36.0' | | |
| | | | | EQUIPMENT | MOBILE B-61 | DRILLER | V&W DRILLING |
| | | | | SOIL DESCRIPTION | | | |
| 31 | 50-2" | B2-30 0855 | | Color change to gray ∇ -water at 36 feet Dense, moist, gray, CLAYSTONE Cuttings very moist | | | |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | | | | | | |
| 37 | | | | | | | |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | 37/50-4" | B2-40 1050 | | | | | |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | | | | | | |
| 47 | | | | | | | |
| 48 | | | | | | | |
| 49 | | | | | | | |
| 50 | 45/50-4" | B2-50 1105 | | BORING TERMINATED AT 51 FEET | | | |
| 51 | | | | | | | |

Figure C3, Log of Boring B-2, page 2 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage






| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-3 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|----------------|---|--|-------------------|----------------------|--------------------|
| | | | | DATE DRILLED 7/21/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT | MOBILE B-61 | DRILLER V&W DRILLING | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | 29 | B3-0.5 0740 |  | ASPHALT CONCRETE/ASPHALT BASE | | | 0.0 |
| 2 | 38 | B3-2 0744 | | FILL Stiff to very stiff, moist, olive brown to brown, Sandy CLAY | | | 0.0 |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | |  | PANOCHÉ FORMATION Stiff to very stiff, moist, olive brown, severely weathered, CLAYSTONE with gravel size fragments | | | 0.0 |
| 6 | 31 | B3-6 0749 | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | |  | Grades into coarser material i.e. SILTSTONE very fine sandstone with weathered clay in fractures | | | 0.0 |
| 10 | 54 | B3-10 0753 | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | |  | Layered strata | | | 0.0 |
| 14 | | | | | | | |
| 15 | 34/50-3" | B3-15 0802 | | | | | |
| 16 | | | | | | | |
| 17 | | |  | | | | 0.0 |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | 34/50-4" | B3-20 0810 | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |

Figure C3, Log of Boring B-3, page 1 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage

| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-3 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|-----------|--------------------------------|----------------------|----------------|--------------------|
| | | | | DATE DRILLED 7/21/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT MOBILE B-61 | DRILLER V&W DRILLING | | |
| | | | | SOIL DESCRIPTION | | | |
| 31 | | | | Hard, moist, gray, CLAYSTONE | | | |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | 50-5" | B3-35 | | | | | 0.0 |
| 36 | | 0826 | | | | | |
| 37 | | | | | | | |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | 48/50-4" | B3-40 | | | | | 23 |
| 41 | | 0826 | | | | | |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | | | | | | |
| 47 | | | | | | | |
| 48 | | | | | | | |
| 49 | | | | | | | |
| 50 | 89 | B3-50 | | | | | 9 |
| 51 | | 0846 | | | | | |
| | | | | BORING TERMINATED AT 51.5 FEET | | | |

Figure C4, Log of Boring B-3, page 2 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage





| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-4 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|----------------|---|---|-------------------|----------------------|--------------------|
| | | | | DATE DRILLED 7/21/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT | MOBILE B-61 | DRILLER V&W DRILLING | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | 17 | B4-0.5 1145 |  | ASPHALT CONCRETE PAVEMENT | | | |
| 2 | 27 | B4-2 1150 | | FILL Moderately dense, moist, brown, Sandy CLAY | | | |
| 3 | | |  | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | 65-6" | B4-6 1155 | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | 74 | B4-10 1158 | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | |  | | | | |
| 14 | | | | | | | |
| 15 | 70-6" | B4-15 1204 | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | 60-6" | B4-20 1210 | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | |  | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |

Figure C4, Log of Boring B-4, page 1 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

| | |
|-------------------|--|
| BORING ELEVATION: | ENGINEER/GEOLOGIST: BILL KENNEY |
|-------------------|--|

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage


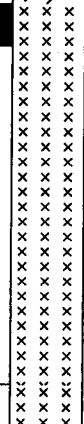
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-4 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|--|--|-------------------|----------------|--------------------|
| | | | | DATE DRILLED 7/21/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT MOBILE B-61 DRILLER V&W DRILLING | | | |
| | | | | SOIL DESCRIPTION | | | |
| 31 | 50-3" | B4-30 1222 |  | Sample appears to be cuttings | | | 0.0 |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | | | | | | |
| 37 | | | | | | | |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | 50-3" | B4-40 1235 |  | No recovery | | | 10 |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | | | | | | |
| 47 | | | | | | | |
| 48 | | | | | | | |
| 49 | | | | | | | |
| 50 | | | | | | | |

Figure C5, Log of Boring B-4, page 2 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage

| | | | | BORING NO. B-5 | | | |
|---------------------|-------|-----------------------------------|-----------------------------|---|----------------------|-------------------|----------------------|
| DEPTH IN FEET | | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | DATE DRILLED 7/21/98 | WATER LEVEL (ATD) | SOIL (USCS) |
| | | | | | EQUIPMENT | MOBILE B-61 | DRILLER V&W DRILLING |
| | | | | | SOIL DESCRIPTION | | |
| 1 | 31 | B5-0.5 0930 | | ASPHALT CONCRETE/ASPHALT BASE | | CL | 8 |
| 2 | | B5-2 0934 | | FILL/TOPSOIL Stiff, moist, brown, Sandy CLAY | | | 13 |
| 3 | | | | -dark brown mottle | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | 50-5" | B5-6 0942 | | PANOCHE FORMATION Dense to very dense, moist, dark brown, SANDSTONE | | | 34 |
| 7 | | | | -orange/brown clay in fractures | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | 50 | B5-10 0949 | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | 120 | B5-15 0958 | | Grades to dark brown | | | 23 |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | 70-5" | B5-20 1010 | | Grades to olive brown | | | 20 |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | Driller comment "very hard" | | | | |

Figure C5, Log of Boring B-5, page 1 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

| | |
|-------------------|--|
| BORING ELEVATION: | ENGINEER/GEOLOGIST: BILL KENNEY |
|-------------------|--|

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage

| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-5 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|-----------|--------------------------------|-------------------|----------------------|--------------------|
| | | | | DATE DRILLED 7/21/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT | MOBILE B-61 | DRILLER V&W DRILLING | |
| | | | | SOIL DESCRIPTION | | | |
| 31 | 75 | B5-30 1020 | | Grades to dark brown SANDSTONE | | | 50 |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | | | | | | |
| 37 | | | | | | | |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | | B5-40 | | No Recovery | | | 14 |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | | | | | | |
| 47 | | | | | | | |
| 48 | | | | | | | |
| 49 | | | | | | | |
| 50 | | | | | | | |
| | | B5-50 | | No recovery | | | |
| | | | | BORING TERMINATED AT 50 FEET | | | |

Figure C6, Log of Boring B-5, page 2 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage


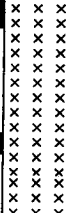
| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-6 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|----------------|---|--|-------------------|----------------------|--------------------|
| | | | | DATE DRILLED 7/21/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT | MOBILE B-61 | DRILLER V&W DRILLING | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | 38 | B6-0.5 1535 |  | ASPHALT CONCRETE/ASPHALT BASE | | | |
| 2 | 86 | B6-2 1540 | | FILL Dense, moist, brown, Silty SAND and Clayey SAND | | | 0.0 |
| 3 | | |  | PANOCHÉ FORMATION Very dense, moist, olive brown, SILTSTONE, well cemented | | | 0.0 |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | 50 | B6-6 1548 | | | | | |
| 7 | | | | | | | 0.0 |
| 8 | | | | Very dense | | | |
| 9 | | | | | | | |
| 10 | 50 | B6-10 1555 | | | | | 0.0 |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | 50-5" | B6-15 1602 | | | | | 0.0 |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | 50 | B6-20 1610 | | | | | 0.0 |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | Driller comment "very hard drilling" | | | |

Figure C6, Log of Boring B-6, page 1 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

| | |
|-------------------|--|
| BORING ELEVATION: | ENGINEER/GEOLOGIST: BILL KENNEY |
|-------------------|--|

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage

| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-6 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|---------------|-----------|--|-------------------|----------------|--------------------|
| | | | | DATE DRILLED 7/21/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT MOBILE B-61 DRILLER V&W DRILLING | | | |
| | | | | SOIL DESCRIPTION | | | |
| 31 | 50-1" | B6-30 | xxxxx | No recovery | | | |
| | | | | REFUSAL AT 31 FEET | | | |

Figure C7, Log of Boring B-6, page 2 of 2

ENV_NO_WELL CARQ_N.GPJ 09/16/98

| | |
|-------------------|--|
| BORING ELEVATION: | ENGINEER/GEOLOGIST: BILL KENNEY |
|-------------------|--|

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage

| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-7 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|----------------|-----------|---|-------------------|----------------------|--------------------|
| | | | | DATE DRILLED 7/21/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT | MOBILE B-61 | DRILLER V&W DRILLING | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | 44 | B7-0.5 1720 | | ASPHALT CONCRETE/ASPHALT BASE | | | 0.0 |
| 2 | 83 | B7-2 1728 | | PANOCHÉ FORMATION | | | 0.0 |
| 3 | | | | Dense, moist, brown to light brown SANDSTONE, moderately cemented | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | 50 | B7-6 1737 | | Cementation increases to well cemented | | | 0.0 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | 75 | B7-10 | | No recovery | | | |
| | | | | BORING TERMINATED AT 10.5 FEET | | | |

Figure C7, Log of Boring B-7, page 1 of 1

ENV_NO_WELL CARQ_N.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8130-06-85 North Anchorage




| DEPTH IN FEET | PENETRAT. RESIST. BLOWS/FT. | SAMPLE NO. | LITHOLOGY | BORING NO. B-8 | | SOIL (USCS) | HEADSPACE (PPM) |
|---------------------|-----------------------------------|----------------|---|--|-------------------|----------------------|--------------------|
| | | | | DATE DRILLED 7/20/98 | WATER LEVEL (ATD) | | |
| | | | | EQUIPMENT | MOBILE B-61 | DRILLER V&W DRILLING | |
| | | | | SOIL DESCRIPTION | | | |
| 1 | 40 | B8-0.5 1814 |  | ASPHALT CONCRETE/ASPHALT BASE | | CL | 0.0 |
| 2 | 28 | B8-2 1823 |  | TOPSOIL/FILL Stiff, moist, dark brown, Sandy CLAY | | | 13 |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | 38 | B8-6 1830 | | | 23 | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | 49 | B8-10 |  | PANOCHÉ FORMATION Very stiff, moist, olive brown, CLAY and severely weathered CLAYSTONE | | 2 | |
| | | | | BORING TERMINATED AT 11.5 FEET | | | |

Figure C8, Log of Boring B-8, page 1 of 1

ENV_NO_WELL CARQ_N.GPJ 09/16/98

BORING ELEVATION:

ENGINEER/GEOLOGIST: **BILL KENNEY**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.